

Amendment to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) A program control method executed by a computer for converting data outputted from a first program into a format available for a second program, comprising:

an adapter execution program for receiving data outputted from particular transaction processing in a first program; receiving data outputted from particular transaction processing of the first program by an adapter execution unit being executable in the computer for responding to an execution request from said first program;

referencing adapter call definition information for calling an adapter component for use in common with a plurality of transactions, said adapter component being adapted to connect the second program and being executable for controlling the second program in the computer;

to acquire acquiring, by the adapter execution unit, an adapter component reference name for indicating adapter component reference information corresponding to said particular transaction and transaction identification information corresponding to said particular transaction processing for indicating identification information of the second program;

converting, by the adapter execution unit, said data into a data format for a predetermined interface defined by said adapter component to generate first converted data;

initiating an adapter component program corresponding to said adapter component reference name; and name;

outputting said transaction identification information and said first converted data; and data from the adapter execution unit to the adapter component;

~~an adapter component program for receiving said transaction identification information outputted from said adapter execution unit and said first converted data as inputs to the adapter component~~;

referencing connector call definition information for calling a ~~second the~~ second program based on said transaction identification information information;

~~to acquire acquiring, by the adapter component, a connector component reference name for indicating reference information of the second program and a method name corresponding to said particular transaction processing~~;

converting, by the adapter component, said first converted data into a data format for a predetermined interface defined by said second program to generate second converted data;

initiating the method of said second program corresponding to said connector component reference name; and

outputting said second converted data from the adapter component to the second program.

wherein said first program designates execution of a plurality of transactions and has a metadata definition for defining transactions and a data format of each transaction, and

wherein said second program has a metadata definition for defining a method of an existing transaction and a data format of the method for employing the existing transaction.

2. (currently amended) A program control method executed by a computer for converting data outputted from a first program into a format available for a second program, comprising:

an adapter execution program for receiving data outputted from particular transaction processing in a first programreceiving data outputted from particular transaction processing of the first program by an adapter execution unit being executable in the computer for responding to an execution request from said first program;

referencing adapter call definition information for calling an adapter component for use in a particular transaction, said adapter component being adapted to connect the second program and being executable for controlling the second program in the computer;

to acquireacquiring, by the adapter execution unit, an adapter component reference name for indicating adapter component reference information corresponding to said particular transaction processing;

converting, by the adapter execution unit, said data into a data format for a predetermined interface defined by said adapter component to generate first converted data;

initiating an adapter component program corresponding to said adapter component reference name, and name;

outputting said first converted data; and data from the adapter execution unit to the adapter component;

~~an adapter component program for receiving said first converted data as an input~~ receiving said first converted data outputted from the adapter execution unit to the adapter component;

referencing connector call definition information for calling a the second program program;

~~to acquire~~ acquiring, by the adapter component, a connector component reference name for indicating reference information of the second program and a method name corresponding to said particular transaction processing;

converting, by the adapter component, said first converted data into a data format for a predetermined interface defined by said second program to generate second converted data;

initiating the method of said second program corresponding to said connector component reference name; and

outputting said second converted data from the adapter component to the second program.

wherein said first program designates execution of a plurality of transactions and has a metadata definition for defining transactions and a data format of each transaction, and

wherein a second program has a metadata definition for defining a method of an existing transaction and a data format of the method for employing the existing transaction.

3. (original) A program control method according to claim 1, wherein:
said first program is applied with a workflow engine for associating a plurality of transaction systems;

 said second program is applied with a component based on a J2EE Connector component model; and
 said adapter component is applied with a component based on an Enterprise JavaBeans component model.

4. (original) A program control method according to claim 1, wherein:
said first program is applied with a hub-and-spoke system for associating a plurality of transaction systems;
 said second program is applied with a component based on a J2EE Connector component model; and
 said adapter component is applied with a component based on an Enterprise JavaBeans component model.

5. (original) A program control method according to claim 1, wherein:
said first program is applied with a Web application for processing input data
from WWW;
said second program is applied with a component based on a J2EE
Connector component model; and
said adapter component is applied with a component based on an Enterprise
JavaBeans component model.

6. (currently amended) A program control method ~~having an adapter program~~
~~which receives data outputted from a first program as an input, converts said data~~
~~into a format available for a second program, and outputs said converted data to said~~
~~second program, wherein:~~

said adapter program executed by a computer for converting data outputted
from a first program into a format available for a second program, comprising the
steps of:

receiving said data from data outputted from particular transaction processing
of said first program by an adapter execution unit being executable in the computer
for responding to an execution request from said first program;

acquiring, by the adapter execution unit, an adapter component reference
name for indicating adapter component reference information corresponding to said
particular transaction with reference to adapter call definition information for calling

an adapter component for use in common with a plurality of transactions, said adapter component being adapted to connect the second program and being executable for controlling the second program in the computer;

acquiring, by the adapter execution unit, transaction identification information for indicating identification information of the second program with reference to said adapter call definition information;

converting, by the adapter execution unit, said data into a format, which matches an interface for said adapter component, to generate first converted data; passing said transaction identification information and said first converted data to said adapter component;

selecting, by said adapter component, connector call definition information for calling said second program, based on said transaction identification information; acquiring, by said adapter component, a connector reference name for indicating reference information of the second program and a method name corresponding to said particular transaction processing with reference to said connector call definition information;

converting, by the adapter component, said first converted data into a format, which matches an interface for said second program, to generate second converted data; and

passing said second converted data to said second program corresponding to said connector reference name name.

wherein said first program designates execution of a plurality of transactions and has a metadata definition for defining transactions and a data format of each transaction, and

wherein said second program has a metadata definition for defining a method of an existing transaction and a data format of the method for employing the existing transaction.

7. (currently amended) A program control method ~~having an adapter program which receives data outputted from a first program as an input, converts said data into a format available for a second program, and outputs said converted data to said second program, wherein:~~

~~said adapter program executed by a computer for converting data outputted from a first program into a format available for a second program, comprising the steps of:~~

~~receiving an initiation request from said first program by an adapter execution unit being executable in the computer for responding to an execution request from said first program, said initiation request including data;~~

~~acquiring, by the adapter execution unit, an adapter component reference name for indicating adapter component reference information corresponding to particular transaction processing with reference to adapter call definition information for calling an adapter component for use in a particular transaction in an-the adapter execution unit initiated based on said initiation request, said adapter component~~

being adapted to connect the second program and being executable for controlling the second program in the computer;

converting, by the adapter execution unit, said data into a format, which matches an interface for said adapter component, to generate first converted data;

passing said first converted data to said adapter component;

acquiring, by the adapter component, a connector component reference name for indicating reference information of the second program and a method name corresponding to said particular transaction processing with reference to connector call definition information for calling said second program;

converting, by the adapter component, said first converted data into a format, which matches an interface for said second program, to generate second converted data; and

passing said second converted data to said second program corresponding to said connector reference namename.

wherein said first program designates execution of a plurality of transactions and has a metadata definition for defining transactions and a data format of each transaction, and

wherein said second program has a metadata definition for defining a method of an existing transaction and a data format of the method for employing the existing transaction.

8. (original) A program control method according to claim 6, wherein:
said first program is applied with a workflow program for associating a plurality
of transaction systems;

 said second program is applied with a component based on a J2EE
Connector component model; and
 said adapter component is applied with a component based on an Enterprise
JavaBeans component model.

9. (original) A program control method according to claim 6, wherein:
said first program is applied with a hub-and-spoke system for associating a
plurality of transaction systems;
 said second program is applied with a component based on a J2EE
Connector component model; and
 said adapter component is applied with a component based on an Enterprise
JavaBeans component model.

10. (original) A program control method according to claim 6, wherein:
said first program is applied with a Web application for processing input data
from WWW;
 said second program is applied with a component based on a J2EE
Connector component model; and

said adapter component is applied with a component based on an Enterprise JavaBeans component model.

11. (currently amended) A computer system comprising adapter program executing means for receiving data outputted from first-a first program executing means, converting said data into a format available for second-a second program executing means, and outputting said converted data to said second program executing means, wherein:

said adapter program executing means includes:

means for receiving said data from outputted by particular transaction processing of said first program executing means;

means for acquiring an adapter component reference name for indicating adapter component reference information corresponding to said particular transaction with reference to adapter call definition information for calling adapter component executing means for use in common with a plurality of transactions;

means for acquiring transaction identification information for indicating identification information of the second program executing means with reference to said adapter call definition information;

means for converting said data into a format, which matches an interface for said adapter component executing means, to generate first converted data;

means for passing said transaction identification information and said first converted data to said adapter component executing means;

means for selecting connector call definition information for initiating said second program executing means based on said transaction identification information;

means for acquiring a connector reference name for indicating reference information of the second program executing means and a method name with reference to said connector call definition information;

means for converting said first converted data into a format, which matches an interface for said second program executing means, to generate second converted data; and

means for passing said second converted data to said second program executing means corresponding to said connector reference namename, wherein said first program executing means designates execution of a plurality of transactions and has a metadata definition for defining transactions and a data format of each transaction, and wherein said second program executing means has a metadata definition for defining a method of an existing transaction and a data format of the method for employing the existing transaction.

12. (currently amended) A computer readable recording medium storing a control program, said control program having an adapter program which receives data outputted from a first program as an input, converts said data into a format

available for a second program, and outputs said converted data to said second program, wherein:

 said adapter program comprising an adapter execution unit being executable in the computer for responding to an execution request from said first program and an adapter component being capable of connecting the second program and being executable for controlling the second program in the computer, said adapter execution unit comprising the steps of:

 receiving said data from outputted by particular transaction processing of said first program;

 acquiring an adapter component reference name for indicating adapter component reference information corresponding to said particular transaction with reference to adapter call definition information for calling an adapter component for use in common with a plurality of transactions;

 acquiring transaction identification information for indicating identification information of the second program with reference to said adapter call definition information;

 converting said data into a format, which matches an interface for said adapter component, to generate first converted data; and

 passing said transaction identification information and said first converted data to said adapter component; said adapter component comprising the steps of:

selecting a connector call definition information for calling said second program, based on said transaction identification information;

acquiring a connector component reference name for indicating reference information of the second program and a method name with reference to said connector call definition information;

converting said first converted data into a format, which matches an interface for said second program, to generate second converted data; and

passing said second converted data to said second program corresponding to said connector reference namename;

wherein said first program designates execution of a plurality of transactions and has a metadata definition for defining transactions and a data format of each transaction, and

wherein said second program has a metadata definition for defining a method of an existing transaction and a data format of the method for employing the existing transaction.

13. (canceled)